

MATERIAL SAFETY DATA SHEET

2193 BLACK PIPE PEC

Version Number 1.0 Revision Date 09/28/2001 Page 1 of 6 Print Date 11/1/2011

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY TELEPHONE	:	Product Stewardship (770) 271-5902
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	2193 BLACK PIPE PEC
Product code	:	CC00038363
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Carbon black	1333-86-4	30 - 60

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some fumes may be released upon heating or crosslinking and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect his employee from exposure. See Sections 3 and 11 for special precautions.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:	: Inhalation, Ingestion, Skin contact	
Acute exposure		
Inhalation Ingestion Eyes	 Resin particles, like other inert materials, can be mechanically irritating. May be harmful if swallowed. Resin particles, like other inert materials, are mechanically irritating to eyes. 	
Skin	: Experience shows no unusual dermatitis hazard from routine handling.	
Chronic exposure	: Refer to Section 11 for Toxicological Information.	
Medical Conditions Aggravated by Exposure:	: None known.	



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		4. FIRST AID MEASURES
Inhalation	:	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.
Ingestion	:	Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.
Eyes	:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.
Skin	:	Wash off with soap and plenty of water. If skin irritation persists seek medical attention.
		5. FIRE-FIGHTING MEASURES
Flash point	:	Not applicable
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	:	Not applicable Not applicable Not relevant Carbon dioxide blanket, water spray, dry powder, foam. Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. None
	6. A	CCIDENTAL RELEASE MEASURES
Personal precautions	:	Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
Environmental precautions	:	Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.
Methods for cleaning up	:	Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 13 of this MSDS for proper disposal methods.
		7. HANDLING AND STORAGE
Handling	:	Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.
Storage	:	Keep containers dry and tightly closed to avoid moisture absorption



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	-	nd contamination. Keep in a d	-,, , , , , , , , , , , , , , , , , , ,	
8. H	EXPOSURE	CONTROLS / PERSONAL	PROTECTION	
Respiratory protection	: N	lo personal respiratory protecti	ve equipment normally	required.
Eye/Face Protection : Safety glasses with side-shields.				
Hand protection	: P	rotective gloves.		
Skin and body protection	: L	ong sleeved clothing.		
Additional Protective Measures	: S	afety shoes.		
General Hygiene Considerations		landle in accordance with good Vash hands before breaks and a		safety practice
Engineering measures		leat only in areas with appropr ppropriate exhaust ventilation		Provide
Exposure limit(s)				1
Components	Value	Exposure time	Exposure type	List:
Carbon black	3.5 mg/m3	Time Weighted Average		ACGIH
		$(' \mathbf{x} / \mathbf{x})$.		
	2.5. / 2	(TWA):		
	3.5 mg/m3	PEL:		OSHA Z1
	3.5 mg/m3 7 mg/m3			OSHA Z1 MX OEL
	7 mg/m3	PEL: Short Term Exposure Limit (STEL):		
	7 mg/m3	PEL: Short Term Exposure Limit	DPERTIES (Contraction of the second sec	
Form	7 mg/m3 9. PHYSIC	PEL: Short Term Exposure Limit (STEL): CAL AND CHEMICAL PRO		MX OEL
Form	7 mg/m3 9. PHYSIC : Solic	PEL: Short Term Exposure Limit (STEL): CAL AND CHEMICAL PRO	ration rate : Not	MX OEL
Appearance	7 mg/m3 9. PHYSIC : Solic : Pelle	PEL: Short Term Exposure Limit (STEL): CAL AND CHEMICAL PRO Evapo Specif	ration rate : Not ic Gravity : Not	MX OEL
Appearance Color	7 mg/m3 9. PHYSIC : Solic : Pelle : BLA	PEL: Short Term Exposure Limit (STEL): CAL AND CHEMICAL PRO the Evapo the Specific Specific CK Bulk d	ration rate : Not ic Gravity : Not ensity : Not	MX OEL t applicable. t determined. t established
Appearance Color Odor	7 mg/m3 9. PHYSIC : Solic : Pelle : BLA : Very	PEL: Short Term Exposure Limit (STEL): CAL AND CHEMICAL PRO E Evapo ts Specif CK Bulk d faint Vapor	ration rate : Not ic Gravity : Not ensity : Not pressure : Not	MX OEL t applicable. t determined. t established t applicable
Appearance Color Odor Melting point/range	7 mg/m3 9. PHYSIC : Solid : Pelle : BLA : Very : Not	PEL: Short Term Exposure Limit (STEL): CAL AND CHEMICAL PRO Example Example CAL AND CHEMICAL PRO Evapo Specific CK Bulk d faint Vapor determined. Vapor	ration rate : Not ic Gravity : Not ensity : Not pressure : Not density : Not	MX OEL t applicable. t determined. t established t applicable t applicable
Appearance Color Odor	7 mg/m3 9. PHYSIC : Solid : Pelle : BLA : Very : Not	PEL: Short Term Exposure Limit (STEL): CAL AND CHEMICAL PRO CAL AND CHEMICAL PRO the Evapor the	ration rate : Not ic Gravity : Not ensity : Not pressure : Not density : Not	MX OEL t applicable. t determined. t established t applicable
Appearance Color Odor Melting point/range Boiling Point:	7 mg/m3 9. PHYSIC : Solic : Pelle : BLA : Very : Not : Insol	PEL: Short Term Exposure Limit (STEL): CAL AND CHEMICAL PRO CAL AND CHEMICAL PRO the Evapor the	ration rate : Not ic Gravity : Not ensity : Not pressure : Not density : Not : Not	MX OEL t applicable. t determined. t established t applicable t applicable
Appearance Color Odor Melting point/range Boiling Point:	7 mg/m3 9. PHYSIC 2. Solid 3. Pelle 3. BLA 4. Very 5. Not 6 5. Not 6 5. Insol 10. S	PEL: Short Term Exposure Limit (STEL): CAL AND CHEMICAL PRO d Evapo ets Specific CK Bulk dit v faint Vapor determined. Vapor applicable pH uble Uble	ration rate : Not ic Gravity : Not ensity : Not pressure : Not density : Not : Not	MX OEL t applicable. t determined. t established t applicable t applicable
Appearance Color Odor Melting point/range Boiling Point: Water solubility	7 mg/m3 9. PHYSIC : Solid : Pelle : BLA : Very : Not a : Not a : Insol 10. S : S	PEL: Short Term Exposure Limit (STEL): CAL AND CHEMICAL PRO t Evapo ts Specif CK Bulk d faint Vapor determined. Vapor applicable pH uble STABILITY AND REACTIV	ration rate : Not ic Gravity : Not ensity : Not pressure : Not density : Not : Not	MX OEL t applicable. t determined. t established t applicable t applicable



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Incompatible Materials	: Incompatible with strong acids and oxidizing agents.
Hazardous decomposition products	: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.

11. TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
1333-86-4	Carbon black	Systemic effects	Eyes, Respiratory system.

LC50 / LD50

This product contains the following components which in their pure form have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
1333-86-4	Carbon black	Oral LD50	>15,400 mg/kg	rat
		Dermal LD50	> 3 gm/kg	rabbit

Carcinogenicity:

This product contains the following components which in their pure form have the following carcinogenicity data:

CAS-No.	Chemical Name	OSHA	IARC	NTP
1333-86-4	Carbon black	no	2B	no

IARC Carcinogen Classifications:

1 - The component is carcinogenic to humans.

2A - The component is probably carcinogenic to humans.

2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

1 - The component is known to be a human carcinogen.

2 - The component is reasonably anticipated to be a human carcinogen.

Additional Health Hazard Information:

Carbon black 1333-86-4 Carcinogenicity: Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure. However, the IARC evaluation in Monograph Volume 65, issued in April 1996 concluded that, "There is sufficient evidence in experimental animals for the carcinogenicity of carbon black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "Carbon Black is possibly carcinogenic to humans (Group 2B). Carbon Black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon black with PAH (polynuclear aromatic hydrocarbon) levels greater than 0.1% be considered suspect carcinogens.



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Persistence and degradability	: Not readily biodegradable.
Environmental Toxicity	: Chemicals are not readily available as they are bound within the matrix of the polymer.
Bioaccumulation Potential	: Chemicals are not readily available as they are bound within the matrix of the polymer.
Additional advice	: No data available.
	13. DISPOSAL CONSIDERATIONS
Product	: Like most thermoplastics the product can be recycled. Where possibl recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
Contaminated packaging	: Recycling is preferred when possible. The generator of waste materia has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
	14. TRANSPORT INFORMATION
U.S. D.O.T. / CA T.D.G. Classification (Non-bulk ground)	: Not regulated for transportation.
ICAO/IATA	: Not regulated for transportation.
IMO / IMDG	: Not regulated for transportation.
	15. REGULATORY INFORMATION
US Regulations:	
OSHA Status	: Classified as hazardous based on components.
TSCA Status	: All components of this product are listed on the TSCA inventory or ar exempt.
California Proposition 65	: This product does not contain a substance listed by California Prop 65
Canadian Regulations:	



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Version Number 1.0 Page 6 of 6 Revision Date 09/28/2001 Print Date 11/1/2011 WHMIS Classification : D2B WHMIS Ingredient Disclosure List CAS-No. 1333-86-4 DSL : Listed. National Inventories: Australia AICS : Listed. : Listed. China IECS Europe EINECS Not determined. : Japan ENCS : Listed. Korea KECI : Listed. **Philippines PICCS** : Listed. **16. OTHER INFORMATION**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.